



**TYPE APPROVAL CERTIFICATE**  
**No. ELE187316XG/004**

**This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.**

<i>Description</i>	<b>ELECTRIC CABLES</b>
<i>Type</i>	<b>Marine Cat 5e/Cat 7 cable (Indudata)</b>
<i>Applicant</i>	<b>TKF (BV Twentsche Kabelfabriek) P.O. BOX 6 7480 AA HAAKSBERGEN NETHERLANDS</b>
<i>Manufacturer</i>	<b>TKF (BV Twentsche Kabelfabriek)</b>
<i>Place of manufacture</i>	<b>Zhangjiagang Twentsche Cable Co., Ltd. Jiangsu China</b>
<i>Reference standards</i>	<b>IEC 60092-350; IEC 60092-351; IEC 60092-359; IEC 60092-360; IEC 60092-376; IEC 60332-3-22; IEC 60754-2; IEC 61034-1/2; RINA Rules for the Classification of Ships; RINA Rules for Testing and Certification of Marine Materials an Equipment.</b>

*Issued in* **HAMBURG** on **January 20, 2017**. *This Certificate is valid until* **January 19, 2022**



  
RINA Services S.p.A.  
**Giuseppe Russo**

This certificate consists of this page and 1 enclosure

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**Enclosure - Page 1 of 1**

**Marine Cat 5e/Cat 7 cable (Indudata)**

**Description:**

Computer data cable.

**Technical Data/Materials/Components:**

Cat 5e/Cat 7 screened, foiled, twisted pair .

**This Certificate is Valid for the Following Types :**

- InduData Cat 5e S/FTP
- InduData Cat 7 S/FTP

**Marking of Product:**

- TKF - InduData - Category 5E S/FTP - 4 x 2 x 0,22mm<sup>2</sup> AWG 32/7 stranded - HALOGEN FREE FLAME RETARDANT - MARINE APPROVED <BATCH NR.><Meter MARKING>
- TKF - InduData - Category 7 S/FTP - 4 x 2 x 0,27mm<sup>2</sup> AWG 31/7 stranded - HALOGEN FREE FLAME RETARDANT - MARINE APPROVED <BATCH NR.> <Meter MARKING>
- TKF - InduData - Category 7 S/FTP - 4 x 2 x 0,259mm<sup>2</sup> AWG 23/1 solid- HALOGEN FREE FLAME RETARDANT- MARINE APPROVED <BATCH NR.> <Meter MARKING>

**Test standards:**

- IEC 61156-5
- IEC 60092-359
- IEC 60332-3-24
- IEC 60332-1-2
- IEC 60754-2
- IEC 61034-1/2

**Test reports:**

- Report 445.pdf
- CT12-5505 test report.pdf

**Additional Documents:**

- ISO 9001:2008 / 14001/2004 Certificate: See Report 445.pdf

**HAMBURG January 20, 2017**



A handwritten signature in black ink, appearing to read 'Jan' followed by a stylized name.